



Rebirth of an icon



Panchro by Cooke range of lenses are cost effective and lightweight. Ideal for multi-camera shoots, risky environments such as camera cars, 2nd unit and budget conscious filmmakers. Compatible with RED, F35, SI 2K, and all with Cooke quality.

Panchro by Cooke Prime Lenses are designed and developed in close technical collaboration with industry professionals. They are colour-matched and compatible with Cooke S4/i, 5/i, CXX 15-40 mm T2 S4/i Zoom, 18-100mm T3.0 and 25-250mm T3.7 and the SK4 16mm lenses.

Panchro optics offer superb optical and mechanical performance, control of flare, distortion, veiling glare and spherical aberrations at full aperture. The cam-type focus mechanism allows for smooth focus adjustments. Modular construction increases ease of maintenance and serviceability. Panchro by Cooke is manufactured by us to our traditional high standards in Leicester, England.

Feature Highlights

- Lenses available 18, 25, 32, 50, 75, and 100mm
- T 2.8 to T 22 aperture
- Colour matched with all other Cooke lenses
- /i Technology included as standard
- Lightweight
- Cooke Quality and S4/i like construction
- Linear iris
- Cam-style focus

/i Technology

All of our Panchro Prime lenses are supplied with /i Technology, and are designed for all PL mounted professional motion picture film and electronic cameras. /i Technology provides cinematographers and camera operators with vital information on lens setting, focusing distance, aperture and depth-of-field, hyperfocal distance, serial number, owner data, lens type and focal length in both metric and footage measurements. For zoom lenses, the zoom position is displayed. Significantly, all the information is captured downstream for use in post-production.



Technical Specifications

Optical Design

The optics are designed to give maximum performance at full aperture with superior control of flare, distortion and spherical aberration.

/i Electronics

Accessible via cable connector near the lens mount and contacts in mount that sync with /i compatible cameras and accessories.

Colour Balance

All Panchro prime lenses are colour balanced to a specification within parameters approved by Kodak.

Aperture

All Panchro primes have a true T2.8 aperture and cover Super 35mm format.

Index Marks

Every index mark is labelled. More detailed markings allow for more detailed focus control.

Focus Movement

Our Academy Award® winning cam-style focus movement coupled with the added benefit of a large lens barrel diameter, has allowed for an increased number of focus markings, particularly at close focus. Spherical aberration has been controlled throughout the range of focal lengths to eliminate the need to compensate for changes in back focus with aperture. A four-point contact bearing provides a smooth positive backlash-free movement.

Camera Mounts

Arriflex PL Mount

Focus Scaling

Large, clear numerals on both sides of the focus barrel benefit the focus puller when shooting under difficult lighting conditions.

Compatibility

All Cooke Panchro primes have a common fixed front diameter of 110mm, with a focus drive gear of 121T x 0.8 mod and an iris drive gear of 119T x 0.8.

External Finish

A scratch resistant PTFE hard anodised finish is provided on all Cooke lenses, providing a durable, hard-wearing surface to meet the most demanding environmental conditions.

Iris

An eight-leaf linear module iris assembly is fitted into Panchro primes with an aperture range of T2.8 to T22.

Weight/Size Ratio

The lenses are designed for all shooting applications, including handheld and Steadicam, providing comfortable balance ratio with the latest compact cameras.

Reliability and Service

Panchro prime lenses are designed to meet a market requirement for fully reliable performance with a minimum of downtime.

Cases Available



Panchro Range of Lenses

	Units	18mm	25mm	32mm	50mm	75mm	100mm
T Stop Range		T2.8 - T22	T2.8 - T22	T2.8 - T22	T2.8 - T22	T2.8 - T22	T2.8 - T22
Angular Rotation of Iris Scale	Degrees	75	75	75	75	75	75
Minimum Marked Object Distance	mm inches	250 9	250 9	350 12	550 20	800 30	900 36
Close Focus from Lens Front	mm inches	79 3	100 4	160 6	360 13	610 23	710 29
Angular Rotation to MOD Endstop	Degrees	300	300	300	300	300	300
Maximum Diagonal Angle for S35 format	Degrees	80	62	50	34	22	17
Length from Front of Lens to Lens Mount	mm inches	120 4.70	106 4.17	137 5.39	137 5.39	137 5.39	137 5.39
Maximum Front Diameter	mm inches	87 3.43	87 3.43	87 3.43	87 3.43	87 3.43	87 3.43
Total Weight	kg lbs	2.10 4.62	1.90 4.18	1.70 3.74	1.50 3.30	1.60 3.52	1.60 3.52
Max. Format Covered	33.54mm Diagonal, Red EPIC S35 Format						
Focus Scales	Two opposing focus scales - metric or footage. Scales marked from infinity to MOD						
Focus Drive Gear	121 teeth 0.8 metric module x 5.0 wide x 104 from the image plane						
Iris Scales	Two opposing linear T scales - whole and third stops marked						
Iris Drive Gear	119 teeth 0.8 metric module x 2.5 wide x 84 from image plane						



Further resources

Depth of Field charts

<http://www.cookeoptics.com/cooke.nsf/technical/technical.html>

Downloads

<http://www.cookeoptics.com/cooke.nsf/technical/downloads.html>

About Cooke



For 100 years, Cooke has been at the centre of the filmmaking business. We've been listening to the community of which we are a part. We lead by introducing new products such as /i Technology and now the 5/i range, and we remember our success is built on a simple idea - do what the filmmaker needs.

Our factory in Leicester, England has generations from the same family working side by side. That experience is unbeaten anywhere. We manufacture a full range of primes and zooms for 35mm, digital and Super 16mm photography, plus a range of large format stills lenses.

We know our customers, and they know us, as individuals. Our rental partners do their training next to the craftsman who built their lenses. There are no barriers. We meet our customers at trade shows around the world, on location and we welcome customers by appointment to our factory in the UK for an informal tour and discussion.

Our quality is monitored at every stage of manufacturing and building the lens. Our Quality Control technical's carry out a 20 point check to ensure that the lenses leaving our factory are made to the highest quality possible. We're intolerant when it comes to tolerances. We research continuously to drive innovation. Our lenses are dependable and practical in use on the set; our optics superb. The lenses are straightforward to maintain – which is why so many rental facilities carry our products. Our manufacturing and testers keep going until we get each lens within our very tight specification. We get it right, whatever it takes.

At the heart of what makes Cooke special is the "Cooke Look". The Cooke Look is about the science of creating beautiful images for the motion picture industry.

As a result, for over a century, cinematographers have chosen Cooke lenses for a smooth roundness and dimensionality to the picture and for the velvety skin tones that flatter.



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